IMP. INST. ENT.
— LIBRARY —
23 DEC 1930
ERIAL A16
EPARATE

CONTENTS.

Vol. X (1929).

Nos. 1 & 2 Page

Note on the Report of the Royal Commission on Agriculture in India.—Leslie C. Coleman, M.A., PH.D., Director of Agriculture in Mysore.—

Chapter 1. Introduction 1
,, 2. Historical Retrospect 2
,, 3. The Organization of Agricultural Research .. 2
,, 4. Agricultural Improvement 6
,, 5. The Sub-Division and Fragmentation of Holdings 16
,, 6. Demonstration and Propaganda 19
,, 7. Animal Husbandry 30
,, 8. Forests 48
,, 9. Diseases of Live-Stock and their Control .. 55
,, 10. Irrigation 61
,, 11. Communications and Marketing 70
,, 12. The Finance of Agriculture 77
,, 13. Co-operation 85
,, 14. The Village 88
,, 15. Education 94
,, 16. Rural Industries and Labour 108
,, 17. Horticulture and Plantations 111
,, 18. Statistics 114
,, 20. Miscellaneous 117

Summary of the Main Proposals made and Conclusions reached in the accompanying Note 118

No. 3.

Mr. D. G. Ramachandra Rao—An Appreciation 123

Virus Diseases of Plants—Leslie C. Coleman, M.A., PH.D., Director of Agriculture in Mysore 124

Page

The Economic Effect of Cattle-Breeding in India—W. Smith, Imperial Dairy Expert 132

The Steel Plough—Gundappa S. Kurpad, B.A. 136

Village Panchayats and Agricultural Improvement—B. R. Gururaja Rao, Agricultural Inspector 140

NOTES AND COMMENTS—

Linseed Oil as an Adhesive for Bordeaux Mixture 145

SELECTIONS—

Fireproofing Thatched Roofs 147

Farm Trials of Artificial Manures 147

The Indian Milk Problem 148

Topping of Coffee 149

Some Facts of Importance to Paddy-Growers 150

Hebbal Experimental Farm—

Summary of some Results obtained and the plan of Experiments now in Progress—Gundappa S. Kurpad, B.A., Venkata Rao K. Badami, L.Ag., Ph.D., C. Narasinga Raju, L.Ag. .. 155

Programme of Experimental Work for 1930 173

No. 4.

In Memoriam—Mr. B. C. Shantappa 175

Agricultural Exhibits at the Mysore *Dasara* Exhibition and in the Districts—K. Bhima Rao, B.A., Senior Assistant Chemist 177

Cultivation of Peas round about Ramakrishnapur, Anekal Taluk, Bangalore District—H. Venkoba Rao, Agricultural Inspector 184

A Tour in the Malnads of Mysore—Gundappa S. Kurpad, B.A., Vice-Principal, Mysore Agricultural School 190

Sannhemp as Green Manure for Potato and Onion Crops—H. Lakshminarasimhiah, Agricultural Inspector 197

Some Agricultural Problems of the Hassan District—Leslie C. Coleman, M.A., Ph.D., Director of Agriculture in Mysore .. 199

NOTES AND COMMENTS—

Topping of Coffee 204

Our Annual Field Day, 1929 204

Ragi stored in Underground Pits 207

SELECTIONS— Page

How Pasteur discovered Bacillary Vaccination .. 209

Means of Obtaining Reliable Seed 209

Chemical and Microbiological Principles underlying the Transformation of Organic Matter in Stable Manures in the Soil 211

Cocoanut Cultivation 212

Establishment and the Work of the Farm Experiment Circles in Germany 214

Features of Well-Made Cattle Manure 218

Variety in the Ration 222

A Scheme for the Establishment of an Agricultural Colony under the Bhadra Channel 225

ILLUSTRATIONS.

Mr. D. G. Ramachandra Rao, Assistant Director of Agriculture .. 123

Tobacco mosaic showing mottled appearance of leaf having more light green areas than dark green ones. In addition, the leaf shows a peculiar crinkled appearance 126

Sandal tree affected by spike disease. This type, showing a pendulous orientation of the affected branches, is met with occasionally 127

Periwinkle (*Vinca rosea*, L) showing the lower branches affected by spike disease, the top ones being apparently healthy .. 130

Photomicrograph showing vacuolated intracellular bodies attached to the nuclei present in the cells of a spiked sandal leaf. The intracellular bodies are large, the nuclei smaller and dark-coloured 131

Photomicrograph showing the intracellular bodies in the cells of a spiked vinca leaf. In the middle of the photograph one is shown attached to the dark-coloured nucleus 131

Saniwal Cow—Felicia, bred by and the property of the Military Dairy Farm, Ferozepore. The best pure Indian cow alive. Gave 11,448 lbs. milk in 365 days 132

Scindi Cow—No. 721, Bangalore Dairy Farm, gave 7,272 lbs. of milk in best lactation 133

Page

Results of Autumn and Spring Ploughing 156

Disc Harrow 156

Sowing Ragi with a 12 tyned seed-drill 157

Harvest from rotation experiment plot. Ragi after *avare*; ragi after ragi; ragi after groundnut 157

Mr. B. C. Shantappa 175

View of a part of the Agricultural Stalls at the Mysore Dasara Exhibition 177

Demonstration Plots, Jeevannarayana Katte. Sugarcane manurial plots in the background. Paddy varietal (left) and paddy manurial (right) plots in the foreground 177

Microphotograph of the Spores of Heterosporium on stored Ragi. 207

2673—30 PRINTED AT THE BANGALORE PRESS, MYSORE ROAD, BANGALORE CITY.